

NEWS IPC8      For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 15:23:50 ON 27 AUG 2007

=> d registry  
NO L# DEFINED

	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 15:24:16 ON 27 AUG 2007  
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STRUCTURE FILE UPDATES: 26 AUG 2007 HIGHEST RN 945604-45-5  
DICTIONARY FILE UPDATES: 26 AUG 2007 HIGHEST RN 945604-45-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

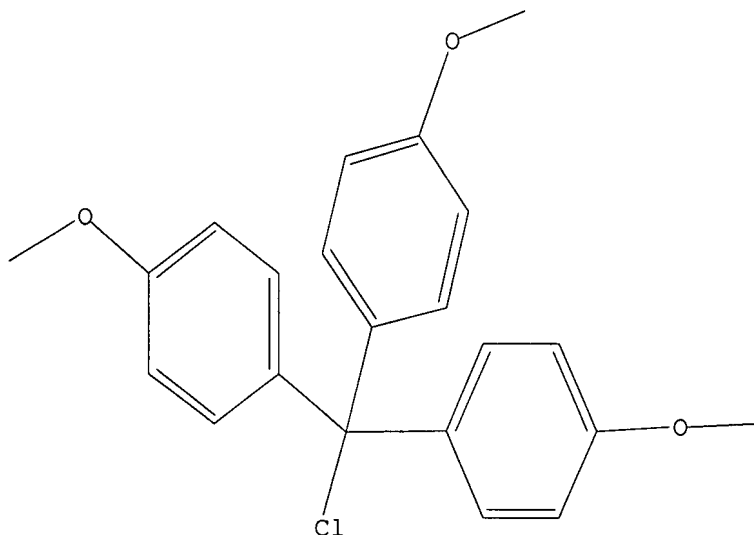
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>  
Uploading C:\Documents and Settings\lwilliams\Desktop\trityl.str

L1      STRUCTURE UPLOADED

=> d l1  
L1 HAS NO ANSWERS  
L1      STR



Structure attributes must be viewed using STN Express query preparation.

```
=> scan l1
ENTER FIELD CODE (BI):
ENTER FIELD CODE (BI):exit
'EXIT' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'REGISTRY'
The indicated field code is not available for EXPAND in this
file. To see a list of valid EXPAND field codes, enter HELP
SFIELDS at an arrow prompt (=>).
```

```
=> s l1
SAMPLE SEARCH INITIATED 15:25:14 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 3 TO ITERATE
```

```
100.0% PROCESSED      3 ITERATIONS      0 ANSWERS
SEARCH TIME: 00.00.01
```

```
FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:   3 TO    163
PROJECTED ANSWERS:      0 TO    0
```

```
L2      0 SEA SSS SAM L1
```

```
=> s l1 full
FULL SEARCH INITIATED 15:25:26 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 61 TO ITERATE
```

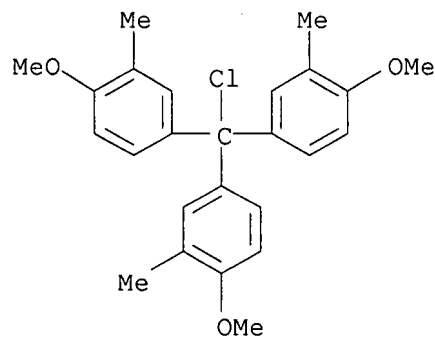
```
100.0% PROCESSED      61 ITERATIONS      9 ANSWERS
SEARCH TIME: 00.00.01
```

```
L3      9 SEA SSS FUL L1
```

```
=> d 1-9 13
```

```
L3  ANSWER 1 OF 9  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   861792-42-9  REGISTRY
ED   Entered STN:  25 Aug 2005
CN   INDEX NAME NOT YET ASSIGNED
OTHER CA INDEX NAMES:
CN   Anisole, 4,4',4''-(chloromethenyl)tris[2-methyl- (2CI)
```

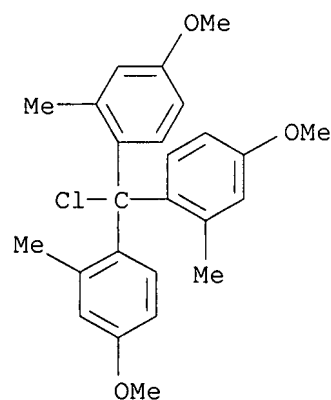
MF C25 H27 Cl O3  
 SR CAS EARLY REGISTRATIONS  
 LC STN Files: CA, CAPLUS, TOXCENTER



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 861332-42-5 REGISTRY  
 ED Entered STN: 23 Aug 2005  
 CN Methane, chlorotris(2-methyl-p-anisyl)- (2CI) (CA INDEX NAME)  
 MF C25 H27 Cl O3  
 SR CAS EARLY REGISTRATIONS  
 LC STN Files: CA, CAPLUS, TOXCENTER

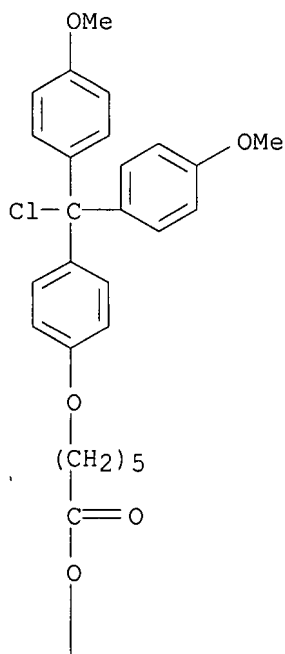


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

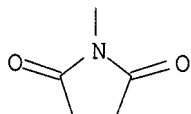
1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 3 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 845273-64-5 REGISTRY  
 ED Entered STN: 11 Mar 2005  
 CN 2,5-Pyrrolidinedione, 1-[[6-[4-[chlorobis(4-methoxyphenyl)methyl]phenoxy]-1-oxohexyl]oxy]- (9CI) (CA INDEX NAME)  
 MF C31 H32 Cl N O7  
 SR CA  
 LC STN Files: CA, CAPLUS

PAGE 1-A



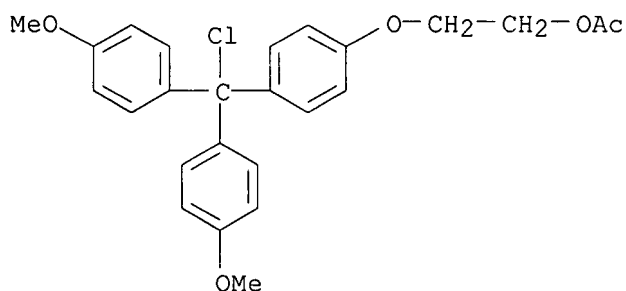
PAGE 2-A



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

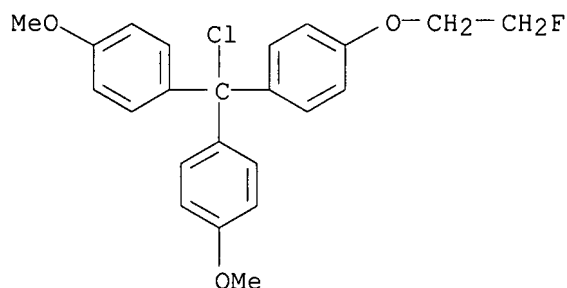
L3 ANSWER 4 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 373604-74-1 REGISTRY  
ED Entered STN: 05 Dec 2001  
CN Ethanol, 2-[4-[chlorobis(4-methoxyphenyl)methyl]phenoxy]-, acetate (9CI)  
(CA INDEX NAME)  
MF C25 H25 Cl O5  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

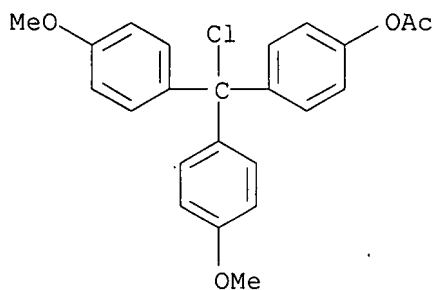
L3 ANSWER 5 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 373604-70-7 REGISTRY  
ED Entered STN: 05 Dec 2001  
CN Benzene, 1,1'-[chloro[4-(2-fluoroethoxy)phenyl]methylene]bis[4-methoxy-  
(9CI) (CA INDEX NAME)  
MF C23 H22 Cl F O3  
SR CA  
LC STN Files: CA, CAPLUS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

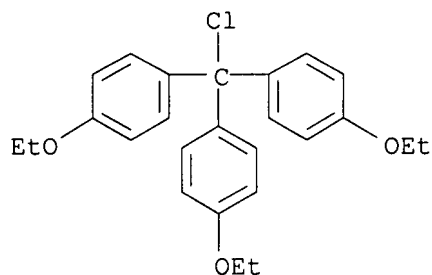
L3 ANSWER 6 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 315660-07-2 REGISTRY  
ED Entered STN: 21 Jan 2001  
CN Phenol, 4-[chlorobis(4-methoxyphenyl)methyl]-, acetate (9CI) (CA INDEX  
NAME)  
MF C23 H21 Cl O4  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

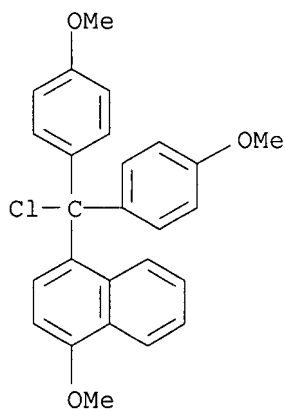
L3 ANSWER 7 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 117678-94-1 REGISTRY  
ED Entered STN: 24 Nov 1988  
CN Benzene, 1,1',1''-(chloromethylidyne)tris[4-ethoxy- (9CI) (CA INDEX NAME)  
MF C25 H27 Cl O3  
SR CA  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

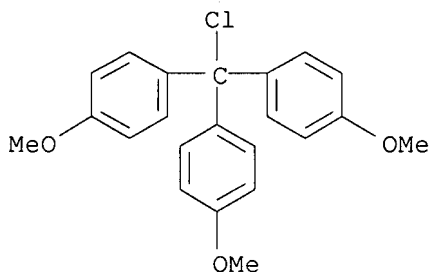
L3 ANSWER 8 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 102876-73-3 REGISTRY  
ED Entered STN: 28 Jun 1986  
CN Methane, chloro(4-methoxy-1-naphthyl)bis(p-methoxyphenyl)- (6CI) (CA INDEX NAME)  
MF C26 H23 Cl O3  
SR CAOLD  
LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 9 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 49757-42-8 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Benzene, 1,1',1''-(chloromethylidyne)tris[4-methoxy- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Methane, chlorotris(p-methoxyphenyl)- (6CI)  
 OTHER NAMES:  
 CN 4,4',4''-Trimethoxytrityl chloride  
 CN Chlorotris(p-methoxyphenyl)methane  
 CN Tris(4-methoxyphenyl)methyl chloride  
 CN Tris(p-methoxyphenyl)chloromethane  
 CN Tris(p-methoxyphenyl)methyl chloride  
 MF C22 H21 Cl O3  
 LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST,  
 CSCHEM, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, SYNTHLINE, TOXCENTER, USPAT2,  
 USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

43 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 43 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	191.00	191.21

FILE 'REGISTRY' ENTERED AT 15:26:43 ON 27 AUG 2007  
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DICTIONARY FILE UPDATES: 26 AUG 2007 HIGHEST RN 945604-45-5

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predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 49757-42-8/RN

L4 1 49757-42-8/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND  
SET COMMAND COMPLETED

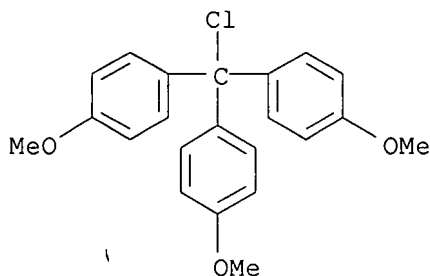
=> D L4 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y\  
YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y  
THE ESTIMATED COST FOR THIS REQUEST IS 6.55 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 49757-42-8 REGISTRY  
CN Benzene, 1,1',1''-(chloromethylidyne)tris[4-methoxy- (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Methane, chlorotris(p-methoxyphenyl)- (6CI)  
OTHER NAMES:  
CN 4,4',4''-Trimethoxytrityl chloride  
CN Chlorotris(p-methoxyphenyl)methane  
CN Tris(4-methoxyphenyl)methyl chloride  
CN Tris(p-methoxyphenyl)chloromethane  
CN Tris(p-methoxyphenyl)methyl chloride  
MF C22 H21 Cl O3  
LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST,  
CSCHEM, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, SYNTHLINE, TOXCENTER, USPAT2,  
USPATFULL  
(\*File contains numerically searchable property data)



Other Sources: DSL\*\*, EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)  
 DT.CA CAplus document type: Journal; Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT  
 (Reactant or reagent); USES (Uses)  
 RL.NP Roles from non-patents: PREP (Preparation); PROC (Process); PRP  
 (Properties); RACT (Reactant or reagent); NORL (No role in record)  
 RLD.NP Roles for non-specific derivatives from non-patents: USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

43 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 43 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND  
 SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	2.40	193.61

FILE 'REGISTRY' ENTERED AT 15:27:29 ON 27 AUG 2007  
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STRUCTURE FILE UPDATES: 26 AUG 2007 HIGHEST RN 945604-45-5  
 DICTIONARY FILE UPDATES: 26 AUG 2007 HIGHEST RN 945604-45-5

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L4 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L5 1 49757-42-8/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.53	194.14

FILE 'CAPLUS' ENTERED AT 15:27:33 ON 27 AUG 2007  
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FILE COVERS 1907 - 27 Aug 2007 VOL 147 ISS 10  
FILE LAST UPDATED: 26 Aug 2007 (20070826/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> S L5

L6 43 L5

=> S L6 AND 1980<=PY<=1999  
11725618 1980<=PY<=1999

L7 24 L6 AND 1980<=PY<=1999

=> DIS L7 1 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:334660 CAPLUS

DOCUMENT NUMBER: 131:87549

TITLE: Chemical Interaction between the Chloride Ion and Alkali Metal or Alkaline Earth Metal Cations as an Effective Motive Force for the Formation of Carbocations from Trityl Chlorides in Acetonitrile  
AUTHOR(S): Hojo, Masashi; Ueda, Tadaharu; Yamasaki, Masanori  
CORPORATE SOURCE: Department of Chemistry Faculty of Science, Kochi University, Akebono-cho Kochi, 780-8520, Japan  
SOURCE: Journal of Organic Chemistry (1999), 64(13), 4939-4942

CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 131:87549

ABSTRACT:

The enhanced formation of MeO-substituted trityl carbocations by ionization of the corresponding trityl chlorides in the presence of alkali metal and alkaline earth perchlorates was attributed to the precipitation reaction of the resultant metal

chlorides. Cation effects on the ionization increased in the series:  $\text{Li}^+ < \text{Mg}^{2+} < \text{Na}^+ < \text{Ca}^{2+} < \text{Sr}^{2+} < \text{Ba}^{2+}$ .

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L7 2 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:491660 CAPLUS

DOCUMENT NUMBER: 129:175319

TITLE: Formation of stable carbocations or zwitterions by a specific interaction with alkali metal or alkaline-earth metal ions in acetonitrile

AUTHOR(S): Hojo, Masashi; Hasegawa, Hiroshi; Tsurui, Hitoshi; Kawamura, Kazushi; Minami, Sei-ichiro; Mizobe, Atsuko

CORPORATE SOURCE: Department of Chemistry, Faculty of Science, Kochi University, Akebono-cho, Kochi, 780-8520, Japan

SOURCE: Bulletin of the Chemical Society of Japan (1998), 71(7), 1619-1627

CODEN: BCSJA8; ISSN: 0009-2673

PUBLISHER: Chemical Society of Japan

DOCUMENT TYPE: Journal

LANGUAGE: English

ABSTRACT:

In an acetonitrile solution, the extents of ionization of trityl halides ( $\text{Ph}_3\text{CX}$ :  $\text{X} = \text{Cl}, \text{Br}$ ) in the presence of various concns. of alkali metal ( $\text{M}^+ = \text{Li}^+, \text{Na}^+$ ) and alkaline-earth metal ( $\text{M}_2^+ = \text{Mg}^{2+}, \text{Ca}^{2+}, \text{Sr}^{2+}, \text{Ba}^{2+}$ ) perchlorates were examined by

spectrophotometry. The promoted formation of the trityl ion ( $\text{Ph}_3\text{C}^+$ ) in the presence of metal ions was attributed to "chemical" interactions, such as coordination or covalent bonding between the halide ions and  $\text{M}^+$  or  $\text{M}_2^+$  ions, and not merely the electrostatic interaction. The salt effects increased with methoxy-substituents on trityl chloride as non-substituted < 4-methoxy < 4,4'-dimethoxy < 4,4',4"-trimethoxytrityl. At higher RX (or X-) concns., not

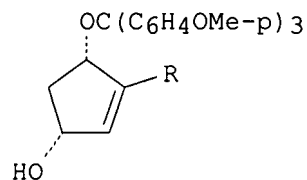
only "coordination", but also precipitation reactions between X- and M+ or M2+ (except for Li+ and Mg2+) seemed to promote the ionization of RX. In the co-presence of a small amount of CH3SO3H, trityl benzoate gave the Ph3C+ ion upon the addition of LiClO4 or Mg(ClO4)2. A red color with strong fluorescence due to the zwitterion (R+-COO-) of Rhodamine (Rhodamine B base) was observed upon the addition of M+ and M2+, which should have been caused by an interaction between the metal ions and the intramol. carboxylate (from the  $\gamma$ -lactone) of Rhodamine in the solution. The  $\gamma$ -lactone ring of Crystal Violet lactone in acetonitrile was cleaved by the addition of Mg(ClO4)2 to give a strong violet color, whereas, LiClO4, NaClO4, or Ba(ClO4)2 had no (or very small) effects in the solution. It was found that the interactions between X- or RCOO- and M+ or M2+ in acetonitrile were strong enough to promote the ionization of partly ionized covalent bonds.

REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L7 3 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1998:169778 CAPLUS  
DOCUMENT NUMBER: 128:230153  
TITLE: Solid-Phase Synthesis of Diverse E- and F-Series Prostaglandins  
AUTHOR(S): Thompson, Lorin A.; Moore, Frederick L.; Moon, Young-Choon; Ellman, Jonathan A.  
CORPORATE SOURCE: Department of Chemistry, University of California, Berkeley, CA, 94720, USA  
SOURCE: Journal of Organic Chemistry (1998), 63(7), 2066-2067  
CODEN: JOCEAH; ISSN: 0022-3263  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
GRAPHIC IMAGE:



I

#### ABSTRACT:

Rapid common synthesis sequence provided access to both 1- and 2-series prostaglandins (PGs) as either E or F derivs. Core structures I (R = Br) (1-series E PGs) and I (R = (Z)-CH2CH=CHBr) (2-series G PGs) were prepared from TBS-protected (R)-4-hydroxycyclopenten-2-one. A dibutylsilyl chloride-substituted resin was used to load alcs. I (R = Br) and I (R = (Z)-CH2CH=CHBr) onto the solid support prepared according to the general procedures of Farrall and Frechet. For 1-series PG derivs. the Suzuki cross coupling was carried out on 2-iodo-4-(silyloxy)cyclopent-2-enones at room temperature using PdCl2(dppf) with Ph3As as catalyst. Synthesis of 2-series PGs were almost identical to the 1-series, however, the TMT group may be removed either before or after the Suzuki coupling step.

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L7 4 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 4 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:803807 CAPLUS

DOCUMENT NUMBER: 128:48490

TITLE: Preparation of amino acid derivatives as  
pharmaceuticals for treatment of neurological and  
neuropsychiatric disorders

INVENTOR(S): Ognyanov, Vassil Iliya; Borden, Laurence; Bell,  
Stanley Charles; Zhang, Jing

PATENT ASSIGNEE(S): Trophix Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 107 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9745115	A1	19971204	WO 1997-US9450	19970529 <--
W:	AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN			
RW:	GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
CA 2254833	A1	19971204	CA 1997-2254833	19970529 <--
AU 9731530	A	19980105	AU 1997-31530	19970529 <--
AU 730789	B2	20010315		
EP 1014966	A1	20000705	EP 1997-926871	19970529
EP 1014966	B1	20060802		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
NZ 332780	A	20000728	NZ 1997-332780	19970529
BR 9709501	A	20001107	BR 1997-9501	19970529
HU 200100815	A2	20010828	HU 2001-815	19970529
HU 200100815	A3	20021128		
CN 1327383	A	20011219	CN 1997-196821	19970529
JP 2002515037	T	20020521	JP 1997-543034	19970529
CZ 294348	B6	20041215	CZ 1998-4042	19970529
IL 127244	A	20051120	IL 1997-127244	19970529
AT 334668	T	20060815	AT 1997-926871	19970529
ES 2270462	T3	20070401	ES 1997-926871	19970529
NO 9805711	A	19981207	NO 1998-5711	19981207 <--
PRIORITY APPLN. INFO.:			US 1996-655912	A 19960531
			US 1996-656063	A 19960531
			US 1997-808754	A 19970227
			US 1997-808755	A 19970227
			US 1997-807682	A 19970227
			WO 1997-US9450	W 19970529

OTHER SOURCE(S): MARPAT 128:48490

ABSTRACT:

Amino acid derivs. R2RxRyXR1NR3(R3\*)nCR4R4\*R5 [X = N, C (R2 not present when X = N); R2 = H, alkyl, alkoxy, cyano, alkanoyl, etc.; Rx, Ry = aryl, heteroaryl, adamantyl, or nonarom. ring linked to X via a single bond, alkylene, etc.; R1 = alkylene, iminoxyethylene, etc.; R3 = H, alkyl, (un)substituted Ph or

phenylalkyl, etc.; R3\* = alkyl, O; n = 0, 1; R4, R4\* = H, alkyl, hydroxyalkyl; R5 = (un)substituted carbamoyl, carboxy, aminosulfonyl, phosphoryl, etc.] were prepared as pharmaceuticals for treatment of neurol. and neuropsychiatric disorders. Thus, N-(4,4-diphenyl-3-butenyl)glycine Et ester was by alkylation of glycine Et ester hydrochloride with 4-bromo-1,1-diphenyl-1-butene. Binding assays to measure interaction of compds. with the glycine site on the NMDA receptor are illustrated.

=> DIS L7 5 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 5 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:794346 CAPLUS

DOCUMENT NUMBER: 128:48323

TITLE: Highly Reduced Organometallics. Part 45.  
Trityltitanium Complexes. X-ray Structural  
Characterization of [Ti(CO)<sub>4</sub>{ $\eta$ 5-C(4-C<sub>6</sub>H<sub>4</sub>R)<sub>3</sub>}]-, (R  
= H, OCH<sub>3</sub>)

AUTHOR(S): Fischer, Paul J.; Ahrendt, Kateri A.; Young, Victor  
G., Jr.; Ellis, John E.

CORPORATE SOURCE: Department of Chemistry, University of Minnesota,  
Minneapolis, MN, 55455, USA

SOURCE: Organometallics (1998), 17(1), 13-15

CODEN: ORGND7; ISSN: 0276-7333

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 128:48323

ABSTRACT:

Reactions of [Ti(CO)<sub>6</sub>]<sup>2-</sup> and chlorotriphenylmethane or chlorotris(4-methoxyphenyl)methane in THF provide the first examples of trityltitanium complexes, [Ti(CO)<sub>4</sub>{ $\eta$ 5-C(4-C<sub>6</sub>H<sub>4</sub>R)<sub>3</sub>}]<sup>-</sup> (R = H, OCH<sub>3</sub>), which were isolated in 28-30% yields as [K(15-crown-5)<sub>2</sub>]<sup>+</sup> salts. These were characterized by IR, NMR, and single-crystal x-ray structural data. The anions contain substituted  $\eta$ 5-benzyl groups bound to Ti(CO)<sub>4</sub> units, which are extremely similar to that previously established for [Ti(CO)<sub>4</sub>( $\eta$ 5-C<sub>5</sub>H<sub>5</sub>)]<sup>-</sup>; the trityl group binds more weakly to the Ti(CO)<sub>4</sub> group than does the cyclopentadienyl unit in the latter. The trityl complex easily reacts with L = 1,4,7-triazacyclononane or hydrotris(1-pyrazolyl)borate to give quant. conversion to the corresponding [Ti(CO)<sub>4</sub>L].

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L7 6 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 6 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:689915 CAPLUS

DOCUMENT NUMBER: 126:42681

TITLE: Method of selectively inhibiting prostaglandin G/H  
synthase-2

INVENTOR(S): Boschelli, Diane H.; Connor, David T.; Dyer, Richard  
D.; Khatana, Sonya S.; Kramer, James B.; Roark,  
William H.

PATENT ASSIGNEE(S): Warner-Lambert Company, USA

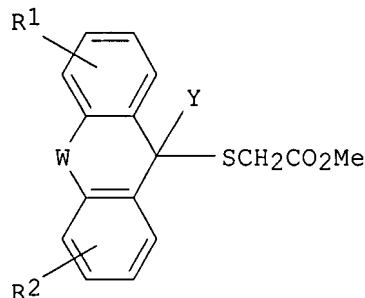
SOURCE: U.S., 10 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5571825	A	19961105	US 1995-414394	19950331 <--
PRIORITY APPLN. INFO.:			US 1995-414394	19950331
OTHER SOURCE(S):	MARPAT	126:42681		
GRAPHIC IMAGE:				



ABSTRACT:

Diarylmethane derivs. X1X2C(Y)SCH2CO2Me [X1, X2 = (substituted) Ph, (substituted) pyridyl, (substituted) thienyl; Y = H, (substituted) Ph] and I (R1, R2 = H, halo, OH, SH, alkyl, cycloalkyl, alkoxy, Ph, NH2, etc.; W = bond, O, S, CH:CH, CH2CH2) are selective inhibitors of prostaglandin G/H synthase-2 (cyclooxygenase) which have little or no effect on prostaglandin G/H synthase-1 and therefore should not cause the side effects of nonsteroidal antiinflammatory drugs. They may be used to treat inflammation caused by prostaglandins and other arachidonic acid metabolites. Thus, 4,4'-dimethoxybenzhydrol reacted with Me thioglycolate to form Me [[bis(4-methoxyphenyl)methyl]thio]acetate. This compound at 100  $\mu$ M inhibited isoform 2 of prostaglandin G/H synthase by 79% and isoform 1 by <10%.

=> DIS L7 7 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 7 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:630490 CAPLUS

Correction of: 1996:196739

DOCUMENT NUMBER: 125:276436

Correction of: 124:261614

TITLE: Preparation of hexahydropyrano[3,2-b][1,4]benzothiazines as inositol phospholipid hydrolysis stimulators

INVENTOR(S): Ishiguro, Susumu; Shimada, Shinichi; Seya, Motohide; Yagi, Yuzo; Kito, Naomi; Kawaguchi, Noboru; Nakakoshi, Masamichi; Tomitsuka, Kunio; Nomoto, Shin; et al.

PATENT ASSIGNEE(S): Snow Brand Milk Products Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 29 pp.

CODEN: EPXXDW

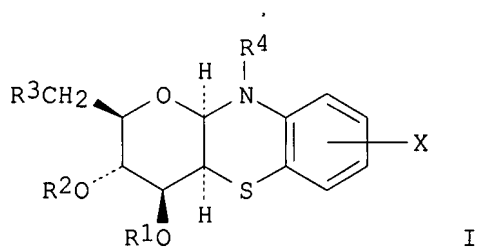
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 671400	A1	19950913	EP 1995-103346	19950308 <--
EP 671400	B1	19980603		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE				
JP 07300482	A	19951114	JP 1995-45053	19950210 <--
CA 2144013	A1	19950910	CA 1995-2144013	19950306 <--
US 5563137	A	19961008	US 1995-400585	19950308 <--
AT 166879	T	19980615	AT 1995-103346	19950308 <--
PRIORITY APPLN. INFO.:			JP 1994-64420	A 19940309
OTHER SOURCE(S):	MARPAT 125:276436			
GRAPHIC IMAGE:				



## ABSTRACT:

The title compds. I [R1, R2 = H, acyl, arylcarbonyl, alkoxyalkyl, SiR8R9R10 (R8, R9, R10 = aryl, alkyl); R1R2 together = cross-linked disiloxanediyl group; R3 = azido, YR5 (Y = O, S, NR14; R14 = H, aralkyl; R5 = H, alkyl, acyl, aryl, etc.); R4 = alkyl, aralkyl, arylcarbonyl, A-NR6R7 (R6, R7 = H, alkyl; A = alkylene); X = H, halo] were prepared. Thus, a suspension of 6.00 g of 4'-chloro-2'-methylaminophenyl-3,4,6-tri-O-acetyl-2-O-mesyl-1-thio-β-D-glucopyranose in 80 mL MeOH saturated with HCl was stirred at room temperature for 2 h, the solution concentrated, 40 mL of EtOH and 40 mL saturated NaHCO3 solution added, and the mixture heated for 20 min. After solvent removal, treatment with 30 mL pyridine and 30 mL Ac2O gave a 75% yield of (2R,3R,4S,4aR,10aR)-2-acetoxymethyl-8-chloro-3,4-diacetoxy-10-methyl-2,3,4,4a,10,10a-hexahydropyrano[3,2-b][1,4]benzothiazine. Some examples of I facilitated metabolic turnover of inositol phospholipids at a hippocampus, and thus can be used as agents for activating brain metabolism and improving cerebral function.

=&gt; DIS L7 8 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 8 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:196739 CAPLUS

DOCUMENT NUMBER: 124:261614

TITLE: Preparation of hexahydropyrano[3,2-b][1,4]benzothiazines as inositol phospholipid hydrolysis stimulators

INVENTOR(S): Ishiguro, Susumu; Shimada, Shinichi; Seya, Motohide; Yagi, Yuzo; Kito, Naomi; Kawaguchi, Noboru; Nakakoshi, Masamichi; Tomitsuka, Kunio; Nomoto, Shin; et al.

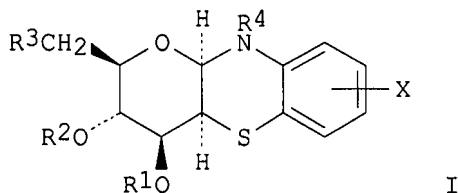
PATENT ASSIGNEE(S): Snow Brand Milk Products Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 29 pp.



DOCUMENT TYPE: Patent  
LANGUAGE: English  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 671400 A1		19950913	EP 1995-103346	19950308
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE				
PRIORITY APPLN. INFO.:			JP 1994-64420	19940309
OTHER SOURCE(S):	MARPAT 124:261614			
GRAPHIC IMAGE:				



#### ABSTRACT:

The title compds. I [R1, R2 = H, acyl, arylcarbonyl, alkoxyalkyl, SiR8R9R10 (R8, R9, R10 = aryl, alkyl); R1 and R2 may form together a cross-linked disiloxanedial group; R3 = azido, YR5 (Y = O, S, NR14 where R14 is H or aralkyl; R5 = H, alkyl, acyl, aryl, etc.); R4 = alkyl, aralkyl, arylcarbonyl, ANR6R7 (R6, R7 = H, alkyl; A = alkylene); X = H, halo] were prepared E.g., a suspension of 6.00 g of 4'-chloro-2'-methylaminophenyl-3,4,6-tri-O-acetyl-2-O-mesyl-1-thio-β-D-glucopyranoside in 80 mL MeOH saturated with HCl was stirred at room temperature for 2 h, the solution concentrated, 40 mL of EtOH and 40 mL saturated NaHCO3 solution added, and the mixture heated for 20 min. After solvent removal, 30 mL of pyridine and 30 mL of Ac2O were added to give a 75% yield of (2R,3R,4S,4aS,10aR)-2-acetoxymethyl-8-chloro-3,4-diacetoxy-10-methyl-2,3,4,4a,10,10a-hexahydropyrano[3,2-b][1,4]benzothiazine. Some examples of I facilitated metabolic turnover of inositol phospholipids at a hippocampus, and thus can be used as agents for activating brain metabolism and improving cerebral function.

=> DIS L7 9 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:712413 CAPLUS

DOCUMENT NUMBER: 123:339324

TITLE: Synthesis and selective studies of N,N'-ditritylurea and analogs as hosts in crystalline clathrate complexes

AUTHOR(S): Ng, Kwok-Keung Daniel; Hart, Harold

CORPORATE SOURCE: Dep. Chemistry, Michigan State Univ., East Lansing, MI, 48824-1322, USA

SOURCE: Tetrahedron (1995), 51(29), 7883-906

CODEN: TETRAB; ISSN: 0040-4020

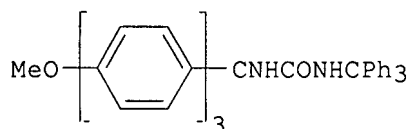
PUBLISHER: Pergamon

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 123:339324

GRAPHIC IMAGE:



I

# ABSTRACT:

Of 38 hosts, most of them new, designed on the 'wheel-and-axle' model, 24 formed clathrate complexes with small mols.; 95 new host/guest combinations are described. Selectivity studies show, in some instances, substantial discrimination between guests with similar structures. Tris(p-methoxyphenyl)methyl chloride in CH<sub>2</sub>Cl<sub>2</sub> was treated with anhydrous NH<sub>3</sub> to give tris(p-methoxyphenyl)methylamine to which was added trityl isocyanate in Me<sub>3</sub>COH to give title compound I. Host-guests complexes are cited.

=> DIS L7 10 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:664954 CAPLUS

DOCUMENT NUMBER: 123:170554

TITLE: Process and catalysts for producing aromatic vinyl compound copolymer

INVENTOR(S): Takeuchi, Mizutomo; Shouzaki, Hajime; Tomotsu, Norio

PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan

SOURCE: PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9501379	A1	19950112	WO 1994-JP1079	19940701 <--
W: US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 07018023	A	19950120	JP 1993-164528	19930702 <--
JP 3189175	B2	20010716		
EP 707014	A1	19960417	EP 1994-919842	19940701 <--
EP 707014	B1	19990217		
R: DE, FR, GB, IT, NL				
US 5747613	A	19980505	US 1996-569123	19960102 <--
PRIORITY APPLN. INFO.:			JP 1993-164528	A 19930702
			WO 1994-JP1079	W 19940701

# ABSTRACT:

The title process for producing an aromatic vinyl compound copolymer which has a lightly syndiotactic structure comprises copolymerizing an aromatic vinyl compound with, for example, an olefin in the presence of a catalytic system comprising (A) a transition metal compound, (B) an ionic compound comprising a non-coordinating anion and typically a Group 4 element cation, and optionally (C) a Lewis acid. This process enables an efficient production of an aromatic vinyl compound copolymer which has reduced residual ash and residual poisonous matter content and where the aromatic vinyl chain has a highly syndiotactic structure without the use of a costly aluminoxane by using a high-activity catalytic system. An 88:12 styrene-ethylene copolymer was prepared using a catalyst system containing triisobutylaluminum and 1,2,3,4-tetramethylcyclopentadienyltitanium.

trimethoxide.

=> DIS L7 11 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:350414 CAPLUS

DOCUMENT NUMBER: 122:132730

TITLE: Preparation of triarylcarbenium ionic compounds as polymerization catalysts

INVENTOR(S): Shozaki, Hajime; Takeuchi, Tamanori; Tomotsu, Norio

PATENT ASSIGNEE(S): Idemitsu Kosan Co, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE -----
JP 06157547	A	19940603	JP 1992-320491	19921130 <--
JP 3237246	B2	20011210		

PRIORITY APPLN. INFO.:

JP 1992-320491

19921130

ABSTRACT:

[CR1R2R3]+ (M1X1X2...Xn)(n-m)- [R1-R3 = (un)substituted Ph, naphthyl, etc., M1 = Group 5-15 metal; X1-Xn = (halo-substituted) Ph, alkoxy, dialkylamino, etc.; m = valence of M1 (= 1-7); n = 2-8] are prepared Refluxing (4-MeOC6H4)3COH with SOCl2 gave (4-MeOC6H4)3CCl, which was dissolved in CH2Cl2 and stirred with LiB(C6F5)4 at room temperature to give (4-MeOC6H4)3C+ B(C6F5)4-, which was dissolved in toluene and the solution was treated with (pentamethylcyclopentadienyl)trimethyltitanium and (iso-Bu)3Al in toluene to give a polymerization catalyst for ethylene.

=> DIS L7 12 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:579457 CAPLUS

DOCUMENT NUMBER: 121:179457

TITLE: Design, Synthesis and Evaluation of Substituted Triaryl nipecotic Acid Derivatives as GABA Uptake Inhibitors: Identification of a Ligand with Moderate Affinity and Selectivity for the Cloned Human GABA Transporter GAT-3

AUTHOR(S): Dhar, T. G. Murali; Borden, Laurence A.; Tyagarajan, Sriram; Smith, Kelli E.; Branchek, Theresa A.;

CORPORATE SOURCE: Weinshank, Richard L.; Gluchowski, Charles  
Synaptic Pharmaceutical Corporation, Paramus, NJ, 07652, USA

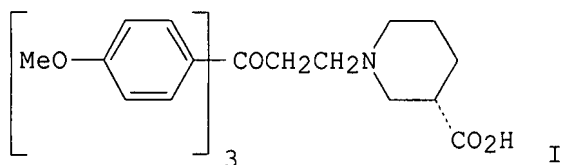
SOURCE: Journal of Medicinal Chemistry (1994), 37(15), 2334-42

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

GRAPHIC IMAGE:



**ABSTRACT:**

$\gamma$ -Aminobutyric acid (GABA) is the major inhibitory neurotransmitter in the mammalian central nervous system. Mol. biol. has revealed the presence of four high-affinity GABA transporters in the brain, GAT-1, GAT-2, GAT-3, and BGT-1, the latter transporting both GABA and the osmolyte betaine. Known GABA uptake inhibitors exhibit high affinity and selectivity for GAT-1. A novel series of triarylnipecotic acid derivs. was prepared for evaluation as GABA uptake inhibitors. From this series of compds. (S)-1-[2-[tris(4-methoxyphenyl)methoxy]ethyl]-3-piperidinecarboxylic acid, (I) was identified as a novel ligand with selectivity for GAT-3. I displayed an IC<sub>50</sub> of 5  $\mu$ M at GAT-3, 21  $\mu$ M at GAT-2, >200  $\mu$ M at GAT-1, and 140  $\mu$ M at BGT-1. This compound will be an important tool for evaluating the role of GAT-3 in neural function.

=> DIS L7 13 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:495656 CAPLUS

DOCUMENT NUMBER: 121:95656

TITLE: Supported electron-acceptor and electron-donor photosensitizers for the activation of benzylic C-H or C-X bonds towards dioxygen

AUTHOR(S): Julliard, Michel

CORPORATE SOURCE: Lab. AM, Fac. Sci. Tech. Saint-Jerome, Marseille, 13397, Fr.

SOURCE: New Journal of Chemistry (1994), 18(2), 243-50

CODEN: NJCHE5; ISSN: 1144-0546

DOCUMENT TYPE: Journal

LANGUAGE: English

**ABSTRACT:**

Several electron-acceptor and electron-donor derivs. were grafted on silica and used as supported redox photosensitizers. The grafting was performed by two methods: reaction of halogenated derivs. with aminopropyl silica; or condensation on silica of the compound which had been previously transformed into monochlorosilane. The series of photosensitizers produced corresponds to a light absorption range from 450 to 230 nm for electron acceptors and 700 to 230 nm for electron donors. The photosensitizers were used in test reactions to activate C-H and C-X bonds towards dioxygen. These reactions were the photosensitized oxidative activation of 4-Me anisole and the photosensitized reductive activation of 4-nitrobenzyl bromide.

=> DIS L7 14 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:424044 CAPLUS

DOCUMENT NUMBER: 113:24044

TITLE: Photolysis of (triarylmethyl)phosphonic acids and their esters  
AUTHOR(S): Shi, Min; Okamoto, Yoshiki; Takamuku, Setsuo  
CORPORATE SOURCE: Inst. Sci. Ind. Res., Osaka Univ., Ibaraki, 567, Japan  
SOURCE: Bulletin of the Chemical Society of Japan (1990), 63(2), 453-60  
CODEN: BCSJA8; ISSN: 0009-2673  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 113:24044  
ABSTRACT:  
Upon UV-irradiation in an alkaline alc. solution, some triarylmethylphosphonic acids e.g.,  $\text{Ph}_3\text{CP}(\text{O})(\text{OH})_2$  underwent C-P bond cleavage to give triarylmethanes e.g.,  $\text{Ph}_3\text{CH}$  and alkyl dihydrogen phosphates e.g.,  $\text{MeOP}(\text{O})(\text{OH})_2$ , while, in an acidic or a neutral alc. solution, they afforded biaryls. Their di-Me esters gave also biaryls and di-Me [alkoxy(aryl)methyl]phosphonates, which were derived from the insertion of (dialkoxyphosphinyl)arylcarbenes into the OH bond of the alc. The carbene was generated by photo- $\alpha,\alpha$ -elimination of two aryl groups of the phosphonate.

=> DIS L7 15 IBIB IABS  
THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 15 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1990:405787 CAPLUS  
DOCUMENT NUMBER: 113:5787  
TITLE: Photolysis of 1,1,1-triarylalkane. A new photochemical carbene generation process  
AUTHOR(S): Shi, Min; Okamoto, Yoshiki; Takamuku, Setsuo  
CORPORATE SOURCE: Inst. Sci. Ind. Res., Osaka Univ., Ibaraki, 567, Japan  
SOURCE: Journal of Organic Chemistry (1990), 55(12), 3821-4  
CODEN: JOCEAH; ISSN: 0022-3263  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 113:5787  
ABSTRACT:  
Upon UV irradiation in MeOH, some 1,1,1-triarylalkanes, e.g.  $\text{Ph}_3\text{CR}$  (R = cyclohexyl) underwent an  $\alpha,\alpha$ -elimination of two aryl groups to give biaryls (PhPh) and the corresponding carbene intermediates, which inserted into the OH bond of the MeOH to afford Me ethers [ $\text{PhCH}(\text{R})\text{OMe}$ ] and/or underwent a 1,2-H shift to afford olefins (benzylidenecyclohexane). Furthermore, the efficiency of this elimination was highly dependent upon the bulkiness of the alkyl groups.

=> DIS L7 16 IBIB IABS  
THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 16 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1990:55129 CAPLUS  
DOCUMENT NUMBER: 112:55129  
TITLE: Photolysis of 1,1,1-triaryl-2-heptynes. Generation of 1-hexynylphenylcarbene  
AUTHOR(S): Shi, Min; Okamoto, Yoshiki; Takamuku, Setsuo  
CORPORATE SOURCE: Inst. Sci. Ind. Res., Osaka Univ., Ibaraki, 567, Japan  
SOURCE: Chemistry Letters (1989), (7), 1297-300  
CODEN: CMLTAG; ISSN: 0366-7022

DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 112:55129  
ABSTRACT:

Photolysis of 1,1,1-triaryl-2-heptynes in MeOH gave biaryls and 1-aryl-1-methoxy-2-heptynes, which were derived from the insertion of aryl-1-hexynylcarbene into the O-H bond of MeOH. The carbene was generated by photochem.  $\alpha,\alpha$ -elimination of 2 aryl groups from the substrate.

E.g., p-MeOC<sub>6</sub>H<sub>4</sub>CPh<sub>2</sub>C.tplbond.CBu gave, at 50% conversion, 7.1% biphenyl, 30% p-PhC<sub>6</sub>H<sub>4</sub>OMe, 29% MeOCHPhC.tplbond.CBu, and 6.9% p-MeOC<sub>6</sub>H<sub>4</sub>CH(OMe)C.tplbond.CBu.

=> DIS L7 17 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 17 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:497731 CAPLUS

DOCUMENT NUMBER: 111:97731

TITLE: Method and apparatus for monitoring the automated synthesis of peptides

INVENTOR(S): Horn, Marcus J.; Recchia, Joanne

PATENT ASSIGNEE(S): Applied Protein Technologies, Inc., USA

SOURCE: U.S., 17 pp. Cont.-in-part of U.S. 4,701,304.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 4800166	A	19890124	US 1986-871513	19860606 <--
US 4701304	A	19871020	US 1985-725213	19850419 <--
EP 219532	A1	19870429	EP 1986-902743	19860417 <--
EP 219532	B1	19920311		

R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE

PRIORITY APPLN. INFO.: US 1985-725213 A2 19850419

ABSTRACT:

The title monitoring takes place at the end of each addition of a blocked amino acid to the peptide chains which are anchored to the solid support. The method includes reacting the solid phase with a monitoring agent that forms a covalent bond with unblocked amino groups. The solid phase is then washed to remove the unreacted monitoring agent. A cleaving agent is then used to selectively remove the covalently bound monitoring reagent from the ends of the unblocked peptide chains while leaving the blocked chains intact. The monitoring agents are trityl chloride, monomethoxytrityl chloride, dimethoxytrityl chloride, and trimethoxytrityl chloride. The amount of monitoring agent thus removed is then quant. measured to determine what proportion of the initial peptide chains failed to react with the blocked amino acid.

=> DIS L7 18 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 18 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:230862 CAPLUS

DOCUMENT NUMBER: 110:230862

TITLE: Flash-photolysis generation and reactivities of triarylmethyl and diarylmethyl cations in aqueous solutions

AUTHOR(S): McClelland, Robert A.; Kanagasabapathy, V. M.; Banait, Narinder S.; Steenken, Steen  
CORPORATE SOURCE: Dep. Chem., Univ. Toronto, Toronto, ON, M5S 1A1, Can.  
SOURCE: Journal of the American Chemical Society (1989), 111(11), 3966-72  
CODEN: JACSAT; ISSN: 0002-7863  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 110:230862  
ABSTRACT:

A series of 18 triarylmethyl cations and 10 diarylmethyl cations have been generated by nanosecond laser flash photolysis of cyanide, 4-cyanophenyl ether, and acetate precursors in acetonitrile/water (AN/W) solns. and first-order rate consts. for their reaction with the solvent ( $k_s$ ) have been directly measured following the decay in their optical d. In the standard solvent employed, 1:2 AN/W, the triarylmethyl cations which were studied had  $k_s$  at 20° ranging from 101 s<sup>-1</sup> [for the 4,4',4''-(MeO)<sub>3</sub>-substituted ion] to 9 + 106 s<sup>-1</sup> [4,4'-(CF<sub>3</sub>)<sub>2</sub>]; diarylmethyl cations had  $k_s$  ranging from 105 s<sup>-1</sup> [4,4'-(MeO)<sub>2</sub>] to 3 + 107 s<sup>-1</sup> [4,4'-(Me)<sub>2</sub>]. The parent diphenylmethyl cation and its derivative with one 4-Me substituent were too short-lived (<15 ns half-life) to be studied with the equipment in 1:2 AN/W; they were observed in 100% acetonitrile and in this solvent containing small amts. of water. The effects on  $k_s$  of varying the amts. of acetonitrile were investigated for several cations. As water is added to 100% acetonitrile,  $k_s$  increases significantly, but at around 15% by volume water, there is a leveling and from that point to 100% water,  $k_s$  is almost unchanged, decreasing by about 20%. A plot of log  $k_s$  vs.  $\sigma^+$  constructed for the triarylmethyl cations shows significant deviations from linearity for the points for the  $\pi$  donors, in the direction which indicates that  $\sigma^+$  is understg. the stabilizing effect of these substituents for a fully formed cation. A plot vs.  $\sigma^+$ , a parameter obtained from the anal. of NMR spectra of solns. of carbocations, is reasonably linear. A two-parameter correlation indicates that polar and resonance interactions of substituents do not proceed in parallel along the reaction coordinate, the addition of water to cation resulting at the transition state in the loss of 73% of the equilibrium resonance effect but only a 33% loss of the polar effect. A rate-equilibrium plot (log  $k_s$  vs. pKR) was constructed which covers 23 pKR units. A single line of slope 0.64 can be drawn to include the entire set of data for both triarylmethyl and diarylmethyl cations. From a small extrapolation the  $k_s$  value for the tert-Bu cation in water is obtained as 1010.5 s<sup>-1</sup>.

=> DIS L7 19 IBIB IABS  
THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:153792 CAPLUS  
DOCUMENT NUMBER: 110:153792  
TITLE: Sterically hindered free radicals. XIX. Stable 4,4',4''-trisubstituted triphenylmethyl radicals  
AUTHOR(S): Duennebacke, Dieter; Neumann, Wilhelm P.; Penenory, Alicia; Stewen, Ulrich  
CORPORATE SOURCE: Univ. Dortmund, Dortmund, D-4600/50, Fed. Rep. Ger.  
SOURCE: Chemische Berichte (1989), 122(3), 533-5  
CODEN: CHBEAM; ISSN: 0009-2940  
DOCUMENT TYPE: Journal  
LANGUAGE: German  
OTHER SOURCE(S): CASREACT 110:153792  
ABSTRACT:

Title radicals (4-RC<sub>6</sub>H<sub>4</sub>)<sub>3</sub>C• (R = F, Cl, Ph, OMe, NO<sub>2</sub>, Me<sub>3</sub>C, EtO, MeS, cyano, CF<sub>3</sub>) have been prepared, the latter four for the first time, and their ESR spectra have been recorded. The intensities of the ESR signals remain constant within the accessible temperature range of -30 to +100°. Within this range,

these radicals are kinetically stable and do not dimerize like other trityls by, e.g.,  $\alpha$ ,p-,  $\alpha$ ,o-, and  $\alpha$ , $\alpha$ -recombinations.

=> DIS L7 20 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:102472 CAPLUS

DOCUMENT NUMBER: 106:102472

TITLE: Thioether complexes of tungsten hexacarbonyl

AUTHOR(S): Lucas, C. Robert

CORPORATE SOURCE: Dep. Chem., Mem. Univ. Newfoundland, St. John's, NF, A1B 3X7, Can.

SOURCE: Canadian Journal of Chemistry (1986), 64(9), 1758-63

CODEN: CJCHAG; ISSN: 0008-4042

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 106:102472

ABSTRACT:

Sixteen R6MSR1 [L; R = Me, (un)substituted Ph; M = C, Si, Ge, Sn; R1 = (un)substituted Ph] and 7 corresponding LW(CO)5 (I) are synthesized. In hexane the carbonyl-stretching region of the IR and the UV spectra of I showed a degree of multiple bonding, at least in the M-S-W-CO fragment. Multiple bonding extending into aromatic R or R1 is small or nonexistent in I, and cannot be assessed precisely because of spontaneous decomposition. All I undergo a thermally initiated decomposition to the unusual W(I) thiolate cis-[(CO)4W- $\mu$ -SR1]2, the ease of which depends on R, R1 and M.

=> DIS L7 21 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 21 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1984:209058 CAPLUS

DOCUMENT NUMBER: 100:209058

TITLE: The effect of both  $\pi$ -donor substituents and acid media on the formation of trityl cations, studied by relaxation methods and NMR spectroscopy

AUTHOR(S): Blumenstock, H.; Dickert, F.; Fackler, H.; Hammerschmidt, A.

CORPORATE SOURCE: Inst. Phys. Theor. Chem., Univ. Erlangen-Nuernberg, Erlangen, D-852, Fed. Rep. Ger.

SOURCE: Zeitschrift fuer Physikalische Chemie (Muenchen, Germany) (1983), 135, 157-70

CODEN: ZPCFAX; ISSN: 0044-3336

DOCUMENT TYPE: Journal

LANGUAGE: English

ABSTRACT:

Trityl trifluoroacetates were studied to determine why ion formation from ionogens is favored by acid media. From relaxation measurements, NMR spectroscopy, and conductivity studies it was found that this effect is due to anion solvation by acid, namely a specific solvation of the free anions and a statistical solvation of the anions bound in the ionogen. This leads to a drastically reduced ion recombination rate constant even at low concns. of acid and an increased dissociation rate constant at rather high concns. of acid.



=> DIS L7 22 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 22 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:521514 CAPLUS

DOCUMENT NUMBER: 99:121514

TITLE: Azide-water competition in solvolysis reactions. A revisit of the reactivity-selectivity relationship

AUTHOR(S): Ta-Shma, Rachel; Rappoport, Zvi

CORPORATE SOURCE: Dep. Org. Chem., Hebrew Univ., Jerusalem, 91904, Israel

SOURCE: Journal of the American Chemical Society (1983), 105(19), 6082-95

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 99:121514

ABSTRACT:

The suggested linearity between the logarithms of the solvolysis rate constant ( $k_{\text{solv}}$ ) of RX and the selectivity ( $k_{\text{N}}/k_{\text{W}}$ ) in capture of the intermediate cation  $\text{R}^+$  by water (W) and  $\text{N}_3^-$  (N) in 80% acetone was reexamined by using extended literature data. The assumptions involved in deriving the  $k_{\text{N}}/k_{\text{W}}$ , such as first-order dependency on the nucleophile concentration in its reaction with  $\text{R}^+$  and the temperature, solvent, nucleofuge, and other extrapolations required for obtaining

the parameters, were discussed. The extended  $\log k_{\text{solv}}$  vs.  $\log (k_{\text{N}}/k_{\text{W}})$  plot, which is based on the revised set of values, is not linear and composed of 5 regions: (a) Ritchie's constant selectivity region; (b) a border region where the selectivity increases more than the reactivity and which may be an artifact; (c) an apparent reactivity-selectivity (RS) region with an appreciable scatter of the points, where  $\log (k_{\text{N}}/k_{\text{W}})$  decreases on decreasing  $k_{\text{solv}}$  (the reaction with  $\text{N}_3^-$  in this region is diffusion controlled and the plot reflects a  $\log k_{\text{solv}}$  vs.  $\log k_{\text{W}}$  relationship); (d) a low  $k_{\text{solv}}$  and nearly constant low selectivity region where hindrance to nucleophilic approach to the intermediate may sterically enforce a preassociation ion pair mechanism on the reaction; (e) an inverted RS region, where the selectivity increases on decreasing  $k_{\text{solv}}$  and where the reaction with  $\text{N}_3^-$  is mostly  $\text{S}_{\text{N}}2$ . The mechanistic regions were discussed in relation to the existence and the lifetimes of the cationoid intermediates.

=> DIS L7 23 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 23 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:215243 CAPLUS

DOCUMENT NUMBER: 98:215243

TITLE: The reaction of tris(4-methoxyphenyl)methyl chloride with sodium methoxide. Nonoperation of single-electron transfer paths

AUTHOR(S): Huszthy, Peter; Lempert, Karoly; Simig, Gyula; Vekey, Karoly

CORPORATE SOURCE: Dep. Org. Chem., Tech. Univ. Budapest, Budapest, H-1521, Hung.

SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1982), (12), 3021-5

CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal

LANGUAGE: English  
OTHER SOURCE(S): CASREACT 98:215243  
ABSTRACT:

Substitution reaction of (4-MeOC<sub>6</sub>H<sub>4</sub>)<sub>3</sub>CCl with NaOMe in refluxing MeOH or aprotic solvents for 5-8 h under N gave 80-89% (4-MeOC<sub>6</sub>H<sub>4</sub>)<sub>3</sub>COMe (I). No single electron transfer products were formed. Labeling studies using NaOCT<sub>3</sub> showed that partial replacement of the 4-MeO groups of the substrate by the reagent occurs. The reaction mechanism involves irreversible formation of I through attack of MeO<sup>-</sup> at the central C atom of an intermediate cation.

=> DIS L7 24 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 24 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:125153 CAPLUS

DOCUMENT NUMBER: 98:125153

TITLE: The reduction of triarylcabenium ions by alcohols:  
simple hydride transfer or concerted breakdown of  
ortho-adducts?

AUTHOR(S): Huszthy, Peter; Lempert, Karoly; Simig, Gyula; Tamas,  
Jozsef

CORPORATE SOURCE: Dep. Org. Chem., Tech. Univ., Budapest, H-1521, Hung.

SOURCE: Journal of the Chemical Society, Perkin Transactions

2: Physical Organic Chemistry (1972-1999) (

1982), (12), 1671-4

CODEN: JCPKBH; ISSN: 0300-9580

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 98:125153

ABSTRACT:

Reduction of tris(4-methoxyphenyl)methyl chloride to tris(4-methoxyphenyl)methane by refluxing MeOH is, as shown by D labeling, accompanied by exchange of MeO groups between solvent and substrate. This exchange reaction is the first recognized example of an S<sub>N</sub>2-Ar reaction of a triarylcabenium ion and involves the intermediacy of a para adduct; this implies that in the course of the reduction of triarylcabenium ions by n-nucleophiles, formation of the related ortho adducts is possible, as required by the mechanism of G. A. Olah and J. J. Svoboda (1973).